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M2 Presswire. Coventry: May 2, 2000. p. 1

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2. [White Pine Marks Milestone in H.323 Conferencing With Continuous Presence and Streaming Media Integration; MeetingPoint 4.0 Ships to Bring Wide Spectrum of Business Benefits](#)
Business Editors & Hi-Tech Writers. Business Wire. New York: Jul 6, 1999. p. 1

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3. [GeneSys Extends Imaging to DOS-Based Applications](#)
Network World. Framingham: Apr 13, 1992. Vol. 9, Iss. 15; p. 19 (1 page)

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[Inspec - 1898 to date \(INZZ\)](#)
Accession number & update

0007095964 20070101.

Title

System-on-silicon solution for high quality consumer video processing-the next generation.

Conference information

ICCE. International Conference on Consumer Electronics, Los Angeles, CA, USA, 19-21 June 2001.

Source

IEEE Transactions on Consumer Electronics, {IEEE-Trans-Consum-Electron-USA}, Aug. 2001, vol. 47, no. 3, p. 412-19, 7 refs, CODEN: ITCEDA, ISSN: 0098-3063.

Publisher: IEEE, USA.

Author(s)

Schu-M, Wendel-D, Tuschen-C, Hahn-M, Langenkamp-U.

Author affiliation

Schu, M., Wendel, D., Tuschen, C., Hahn, M., Langenkamp, U., Micronas Munich GmbH, Germany.

Abstract

This paper presents the next generation of a highly integrated low cost single-chip video processing

system-on-chip with outstanding feature content and performance. The IC unifies the complete processing chain between tuner output (CVBS) and RGB processing. It comprises an improved motion adaptive algorithm for high quality de-interlacing and up-conversion including a special cinematic source processing. Implemented are **picture-in-picture**, **split screen** and manifold **picture** manipulation and improvement capabilities as well as color decoding and all necessary A/D and D/A conversions. All field memories are realized on-chip and store a **picture** in 4:2:2 format up to SVGA resolution. The IC meets economical demands with increased functionality.

Descriptors

CONSUMER-ELECTRONICS; DECODING; DIGITAL-SIGNAL-PROCESSING-CHIPS;
 IMAGE-COLOUR-ANALYSIS; IMAGE-MOTION-ANALYSIS; INTEGRATED-CIRCUIT-LAYOUT;
 VIDEO-SIGNAL-PROCESSING.

Classification codes

B1265F Microprocessors-and-microcomputers*;
B6135 Optical-image-and-video-signal-processing;
B1265A Digital-circuit-design-modelling-and-testing;
C5135 Digital-signal-processing-chips*;
C5260D Video-signal-processing;
E3644 Electronics-industry*.

Keywords

system-on-silicon-solution; **high-quality-consumer-video-processing**; highly-integrated-low-cost-single-chip-video-processing-; feature-content; tuner-output; RGB-processing; CVBS; motion-adaptive-algorithm; de-interlacing; up-conversion; cinematic-source-processing; **picture-in-picture**; **split-screen**; **manifold-picture-manipulation**; improvement-capabilities; color-decoding; A/D-conversion; D/A-conversion; field-memories; 4:2:2-format; SVGA-resolution.

Treatment codes

P Practical;
T Theoretical-or-mathematical.

Language

English.

Publication type

Conference-paper; Journal-paper.

Availability

SICI: 0098-3063(200108)47:3L.412:SSSH; 1-D.
CCCC: 0 7803 6622 0/2001/\$10.00.

Digital object identifier

10.1109/30.964128.

Publication year

2001.

Publication date

20010800.

Edition

2001046.

Copyright statement

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document 2 of 15 Order Document

Inspec - 1898 to date (INZZ)

Accession number & update

0007055896 20070101.

Title

System-on-silicon solution for high quality **consumer** video processing-the next generation.

Conference information

ICCE. International Conference on **Consumer** Electronics, Los Angeles, CA, USA, 19-21 June 2001.

Source

ICCE. International Conference on **Consumer** Electronics (IEEE Cat. No.01CH37182), 2001, p. 94-5, 3 refs, pp. 361, ISBN: 0-7803-6622-0.
Publisher: IEEE, Piscataway, NJ, USA.

Author(s)

Schu-M, Wendel-D, Tuschen-C, Hahn-M, Langenkamp-U.

Abstract

This paper presents the next generation of a highly integrated low cost single-chip video processing system-on-chip with outstanding feature content and performance. The IC/sup 3/ unites the complete processing chain between tuner output (CVBS) and RGB processing. It comprises a perfected motion adaptive algorithm for high quality de-interlacing and up-conversion including a special cinematic source processing, **picture-in-picture**, **split screen** and manifold **picture** manipulation and improvement capabilities are implemented as well as color decoding and all necessary A/D and D/A conversions. All field memories are realized on-chip with YUV4:2:2 color representation up to SVGA resolution. Manufactured in a 0.18 mum copper eDRAM technology, the IC meets economical demands with increased functionality.

Descriptors

CONSUMER-ELECTRONICS; DECODING; DIGITAL-SIGNAL-PROCESSING-CHIPS;
 DRAM-CHIPS; IMAGE-COLOUR-ANALYSIS; IMAGE-MOTION-ANALYSIS; IMAGE-REPRESENTATION; INTEGRATED-CIRCUIT-DESIGN; TELEVISION-RECEIVERS;
 VIDEO-SIGNAL-PROCESSING.

Classification codes

B6420D Radio-and-television-receivers*;
B2570D CMOS-integrated-circuits;
B1265F Microprocessors-and-microcomputers;
B1265A Digital-circuit-design-modelling-and-testing;
B2570A Semiconductor-integrated-circuit-design-layout-modelling-and-testing;
B6135C Image-and-video-coding;
E3644 Electronics-industry*.

Keywords

system-on-silicon-solution; **high-quality-consumer-video-processing**; next-generation; single-chip-video-processing-system-on-chip; IC/sup-3/; motion-adaptive-algorithm; high-quality-de-interlacing; up-conversion; cinematic-source-processing; **picture-in-picture**; **split- screen**; **manifold-picture-manipulation**; improvement-capabilities; color-decoding; A/D-conversion; D/A-conversion; YUV4:2:2-color-representation; SVGA-resolution; eDRAM-technology; functionality; 0.18-micron.

Treatment codes

T Theoretical-or-mathematical.

Numerical indexing

size: 1.8E-07 m.

Language

English.

Publication type

Conference-paper.

Availability

CCCC: 0 7803 6622 0/2001/\$10.00.

Digital object identifier

10.1109/ICCE.2001.935226.

Publication year

2001.

Publication date

20010000.

Edition

2001039.

Copyright statement

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document 3 of 15 Order Document**Inspec - 1898 to date (INZZ)****Accession number & update**

0006536179 20070101.

TitleHigh performance **picture-in-picture** (PIP) IC using embedded DRAM technology.**Conference information**1999 Digest of Technical Papers. International Conference on **Consumer** Electronics, Los Angeles, CA, USA, 22-24 June 1999.Sponsor(s): **Consumer** Electron. Soc.**Source**1999 Digest of Technical Papers. International Conference on **Consumer** Electronics (Cat. No.99CH36277), 1999, p. 342-3, 0 refs, pp. 377, ISBN: 0-7803-5123-1.

Publisher: IEEE, Piscataway, NJ, USA.

Author(s)Brett-M, Wendel-D.**Author affiliation**

Brett, M., Wendel, D., Semicond. Group, Siemens AG, Munich, Germany.

Abstract

In the paper the next generation of a low cost, high performance single-chip **picture-in-picture** IC is presented. This chip will be produced in a 0.35 μ m eDRAM technology and integrates a digital multistandard color decoder, embedded DRAM, A/D and D/A converter and a data slicer for caption services. The paper deals with the digital video signal processing for color decoding with asynchronous sampling and the compensation of the skew. A new algorithm for a jointline-free true frame display is developed. The chip allows a smooth scaling from 1/81 to 1/4 of full **screen picture** size and implements a data compression algorithm for **split-screen** modes.

Descriptors

CMOS-DIGITAL-INTEGRATED-CIRCUITS; CONSUMER-ELECTRONICS; DECODING;
 DIGITAL-SIGNAL-PROCESSING-CHIPS; IMAGE-COLOUR-ANALYSIS; IMAGE-SAMPLING;
 TELEVISION-RECEIVERS; VIDEO-SIGNAL-PROCESSING.

Classification codesB1265F Microprocessors-and-microcomputers*;B2570D CMOS-integrated-circuits;B6220M Speech-and-video-codecs;B6420D Radio-and-television-receivers;E3644 Electronics-industry*.**Keywords**

high-performance-picture-in-picture-IC; PIP-IC; embedded-DRAM- technology; digital- multistandard-color-decoder; A/D-converter; D/A-converter; data-slicer; caption-services; digital- video-signal-processing; color-decoding; asynchronous-sampling; compensation; skew; jointline-free- true-frame-display; smooth-scaling; data-compression-algorithm; **split-screen-modes**; 0.35-micron.

Treatment codesP Practical.**Numerical indexing**

size: 3.5E-07 m.

Language

English.

Publication typeConference-paper.**Availability**

CCCC: 0 7803 5123 1/99/\$10.00.

Digital object identifier

10.1109/ICCE.1999.785391.

Publication year

1999.

Publication date

19990000.

Edition

2000011.

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 document 4 of 15 Order Document**Inspec - 1898 to date (INZZ)****Accession number & update**

0006528645 20070101.

TitleSystem on silicon-IC for motion compensated scan rate conversion, **picture-in-picture** processing, **split screen** applications and display processing.**Conference information**1999 Digest of Technical Papers. International Conference on **Consumer Electronics**, Los Angeles, CA, USA, 22-24 June 1999.Sponsor(s): **Consumer Electron. Soc.****Source**1999 Digest of Technical Papers. International Conference on **Consumer Electronics** (Cat. No.99CH36277), 1999, p. 172-3, 5 refs, pp. 377, ISBN: 0-7803-5123-1.

Publisher: IEEE, Piscataway, NJ, USA.

Author(s)Schu-M, Scheffler-G, Tuschen-C, Stolze-A.**Author affiliation**

Schu, M., Scheffler, G., Tuschen, C., Stolze, A., Semicond Group, Siemens AG, Munich, Germany.

Abstract

An IC for **consumer** electronics TV sets performing 100 Hz interlaced/60 Hz progressive scan rate conversion has been designed. **Picture-in- picture, split screen** and **picture** improvement capabilities are also integrated. It applies a motion-compensating algorithm for high-quality scan rate conversion. PIP processing is done using a full frame based scan rate conversion method. **Split screen** applications with two asynchronous input sources are supported. All field memories are included using a high performance embedded DRAM technology. Therefore the IC, which is compatible with current TV concepts, meets economical demands with increased functionality.

Descriptors

CONSUMER-ELECTRONICS; DIGITAL-SIGNAL-PROCESSING-CHIPS; MOTION-COMPENSATION; TELEVISION-RECEIVERS; TELEVISION-STANDARDS; VIDEO-SIGNAL-PROCESSING.

Classification codes

B6420D Radio-and-television-receivers*;
B1265F Microprocessors-and-microcomputers;
B6135 Optical-image-and-video-signal-processing;
E3644 Electronics-industry*.

Keywords

system-on-silicon-IC; motion-compensated-scan-rate-conversion; **picture-in-picture-processing**; **split-screen-applications**; display- processing; **consumer-electronics-TV-sets**; PIP; asynchronous-input-sources; field-memories; high-performance-embedded-DRAM; functionality; 60-Hz; 100-Hz.

Treatment codesP Practical.**Numerical indexing**

frequency: 6.0E01 Hz.
frequency: 1.0E02 Hz.

Language

English.

Publication typeConference-paper.**Availability**

CCCC: 0 7803 5123 1/99/\$10.00.

Digital object identifier

10.1109/ICCE.1999.785218.

Publication year

1999.

Publication date

19990000.

Edition

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0006379205 20070101.

TitleSystem on silicon-IC for motion compensated scan rate conversion **picture-in-picture** processing, **split screen** applications and display processing.**Conference information**International Conference on **Consumer** Electronics, Los Angeles, CA, USA, 22-24 June 1999.**Source**IEEE Transactions on **Consumer** Electronics, {IEEE-Trans-Consum-Electron-USA}, Aug. 1999, vol. 45, no. 3, p. 842-50, 7 refs, CODEN: ITCEDA, ISSN: 0098-3063.
Publisher: IEEE, USA.**Author(s)**Schu-M, Scheffler-G, Tuschen-C, Stolze-A.**Author affiliation**

Schu, M., Scheffler, G., Tuschen, C., Stolze, A., Infineon Technol. AG i Gr., Munich, Germany.

AbstractAn IC (available commercially as the SDA9410) for **consumer** electronics TV sets performing 100 Hz interlaced/60 Hz progressive scan rate conversion has been designed. **Picture-in-picture** (PIP), **split screen** and **picture** improvement capabilities are also integrated. It applies a motion compensating algorithm for high-quality scan rate conversion. The PIP processing is performed using a full frame based scan rate conversion method. **Split screen** and **multi-picture** applications with two asynchronous input sources are supported. All field memories are included using a high performance embedded DRAM technology. Therefore the IC, which is compatible with current TV concepts, meets economical demands with increased functionality.**Descriptors** CONSUMER-ELECTRONICS; DIGITAL-SIGNAL-PROCESSING-CHIPS; DRAM-CHIPS;
 MONOLITHIC-INTEGRATED-CIRCUITS; MOTION-COMPENSATION; MOTION-ESTIMATION;
 SILICON; TELEVISION-RECEIVERS; VIDEO-SIGNAL-PROCESSING.**Classification codes**B1265F Microprocessors-and-microcomputers*;B2570 Semiconductor-integrated-circuits;B1265D Memory-circuits;B6420D Radio-and-television-receivers;

B6135 Optical-image-and-video-signal-processing;
C5260D Video-signal-processing*;
C5135 Digital-signal-processing-chips;
C5320G Semiconductor-storage;
E3644 Electronics-industry*.

Keywords

system-on-silicon-IC; motion-compensated-scan-rate-conversion; **picture-in-picture-processing;** **split-screen-applications;** display-processing; **picture-improvement;** motion-compensating-algorithm; full-frame-method; asynchronous-input-sources; field-memories; high-performance-embedded-DRAM; **video-image-quality;** **consumer-TV-sets;** video-signal-processing-algorithms; motion-estimation; 100-Hz; 60-Hz; 0.35-micron; Si.

Treatment codes

A Application;
P Practical;
X Experimental.

Numerical indexing

frequency: 1.0E02 Hz.
frequency: 6.0E01 Hz.
size: 3.5E-07 m.

Chemical indexing

Si-int, Si-el.

Language

English.

Publication type

Conference-paper; Journal-paper.

Availability

SICI: 0098-3063(199908)45:3L.842:SSMC; 1-1.
CCCC: 0098-3063/99/\$10.00.

Digital object identifier

10.1109/30.793620.

Publication year

1999.

Publication date

19990800.

Edition

1999041.

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Accession number & update

0006056787 20070101.

Title

Integrating textual and pictorial information via pop-up windows: an experimental study.

Source

Behaviour and Information Technology, {Behav-Inf-Technol-UK}, Sept.-Oct. 1998, vol. 17, no. 5, p. 263-73, 24 refs, CODEN: BEITD5; ISSN: 0144-929X.

Publisher: Taylor & Francis, UK.

Author(s)

Betrancourt-M, Bisseret-A.

Author affiliation

Betrancourt, M., Bisseret, A., Inst. Nat. de Recherche en Inf. et Autom., Montbonnot St. Martin, France.

Abstract

Following previous research in cognitive psychology, this paper deals with the effect of the spatial display of **text-picture** information on the **user's** cognitive processes. Two experiments were carried out to compare three displays on a computer **screen**: **split** display (text and **picture** information displayed in separate areas on the **screen**), integrated display (text information close to the part of the **picture** to which it refers), and pop-up display (text information integrated in pop-up fields which appeared only via the **user's** action). In both experiments, the results showed that the integrated display and to a greater extent the pop-up display led to higher performance for an equal or lower learning time. Thus, these experiments reinforce the hypothesis that material where text and **picture** are integrated improves learning, especially if text information appears in pop-up fields. Results are discussed from a theoretical and a practical point of view.

Descriptors

 HUMAN-FACTORS;  PSYCHOLOGY;  USER-INTERFACES.

Classification codes

C6180 User-interfaces*;
E1410 Ergonomics*.

Keywords

textual-information; pictorial-information; pop-up-windows; experimental-study; cognitive-psychology; spatial-display; cognitive-process; **computer-screen**; **split-display**; integrated-display; performance; learning-time.

Treatment codes

P Practical;
X Experimental.

Language

English.

Publication type

Journal-paper.

Availability

SICI: 0144-929X(199809/10)17:5L.263:ITPI; 1-R.

CCCC: 0144-929X/98/\$12.00.

Publication year

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Publication date

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Accession number & update

0005364550 20070101.

Title

New hardware and software for stereo graphics and video.

Conference information

Stereoscopic Displays and Virtual Reality Systems III, San Jose, CA, USA, 30 Jan.-2 Feb. 1996.

Sponsor(s): SPIE; Soc. **Imaging** Sci. & Technol.

Source

Proceedings of the SPIE - The International Society for Optical Engineering, {Proc-SPIE-Int-Soc-Opt-Eng-USA}, 1996, vol. 2653, p. 201-9, 6 refs, CODEN: PSISDG, ISSN: 0277-786X.

Publisher: SPIE-Int. Soc. Opt. Eng. USA.

Author(s)

Starks-M.

Author affiliation

Starks, M., 3DTV Corp., San Rafael, CA, USA.

Abstract

3DTV Corporation has a variety of new products for stereoscopic computer graphics and video. There are inexpensive kits for frame sequential graphics on virtually every computer platform. A system for IBM PC compatibles has a 3DROM with games, animations, **photos**, tools, information, and a **user** configurable interface for parallel or serial ports with passthrough, status LED's and a jack for 3 new varieties of LCD shutter glasses. The StereoSpace Model 1 is a universal interface for LCD glasses with LED frequency display, VGA, parallel and serial input, sync pulse insertion for the above/below format, buttons for **image** adjustment and polarity reversal and ability to be computer controlled from Windows or other operating environments. Model O is another universal interface that uses optical indicia on the **screen** to trigger glasses. The SpaceCam is a twin lens microprocessor controlled video camera with synced zoom and convergence. The SpaceBar offers manual or computer control of two cameras. The improved Model 200 StereoMultiplexer offers **split screen** modes and DB25 or BNC breakouts for making field sequential stereo with any two cameras. The Space Station can convert NTSC or PAL 3D video in composite, YC or RGB from nearly any format into separate R and L channels or into nearly any frequency field sequential RGB or NTSC. It can multiplex or demultiplex top/bottom, side by side or field sequential video with parallax shifts, color correction and field delays. It is finding use in perceptual research and in 3D video theaters with 1 or 2 projectors. The SpaceScanner converts field sequential stereo between PAL and NTSC. The StereoPlate Models 1 and 2 polarize light for 3D viewing with passive glasses and can fit 3 tube projectors or 17 inch monitors. For low end applications the SpaceSpex process gives full color anaglyphs with inexpensive glasses.

Descriptors

COMPUTER-ANIMATION; COMPUTER-GRAFIC-EQUIPMENT; COMPUTER-GRAFICS;
 DIGITAL-TELEVISION; GRAPHICAL-USER-INTERFACES; STEREO-IMAGE-PROCESSING;
 THREE-DIMENSIONAL-DISPLAYS; THREE-DIMENSIONAL-TELEVISION;
 VIDEO-CAMERAS.

Classification codes

B7260 Display-technology*;
B6140C Optical-information-image-and-video-signal-processing;
B6430 Television-equipment-systems-and-applications;
C5540 Terminals-and-graphic-displays*;
C6130B Graphics-techniques;
C6180G Graphical-user-interfaces;
C5260B Computer-vision-and-image-processing-techniques.

Keywords

stereoscopic-computer-graphics; frame-sequential-graphics; IBM-PC-compatibles; 3DROM; **user-configurable-interface**; StereoSpace-Model-1; universal-interface; LCD-shutter-glasses; LED-frequency-display; VGA; serial-input; parallel-input; sync-pulse-insertion; computer-controlled; SpaceCam; twin-lens-microprocessor-controlled; video-camera; SpaceBar; Model-200-StereoMultiplexer; **split-screen-modes**; SpaceStation; 3D-TV; hardware; software; SpaceScanner; StereoPlate; 3D-viewing; SpaceSpex-process; digital-video.

Treatment codes

P Practical;
R Product-review.

Language

English.

Publication type

Conference-paper; Journal-paper.

Availability

SICI: 0277-786X(1996)2653L.201:HSSG; 1-6.

CCCC: 0 8194 2027 1/96/\$6.00.

Publication year

1996.

Publication date

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0004041054 20070101.

Title

Teleconference system (VisuaLinks AD series).

Source

NEC Technical Journal, {NEC-Tech-J-Japan}, Aug. 1991, vol. 44, no. 6, p. 10-18, 2 refs, CODEN: NECGEZ, ISSN: 0285-4139, Japan.

Author(s)Onaka-T, Matsumura-N, Mano-K, Sasada-T, Ii-H, Sasaki-K, Ishii-T, Arakaki-T, Ikeda-S.**Author affiliation**

Onaka, T., Matsumura, N., Mano, K., Sasada, T., Ii, H., Sasaki, K., Ishii, T., Arakaki, T., Ikeda, S., NEC Corp., Tokyo, Japan.

Abstract

NEC's teleconference system (VisuaLinks AD series) comprises the Visua Link 5000 codec (VL 5000) which conforms to the latest CCITT recommendation H.261, teleconference controller (TC 5000), and teleconference terminal (TV 5000). The VL 5000 provides a number of user selectable data rates ranging from 64 kbps to 2 Mbps in 64 kbps steps. The VisuaLinks AD series can provide the TC 5000 teleconference controller with a camera control interface, echo canceller function, **picture-in-picture** function, **split screen**, field multiplex mode for two **full-screen images**, **still-picture** graphics transmission, talker select and additional video inputs. The TV 5000 consists of cameras, monitors, microphones, speakers and a system rack.

Descriptors CODECS; TELECOMMUNICATIONS-CONTROL; TELECONFERENCING; VIDEO-EQUIPMENT.**Classification codes**B6210P Teleconferencing*;
B6220 Stations-and-subscriber-equipment;
B6430 Television-equipment-systems-and-applications;
C3370J Control-applications-in-television*.**Keywords**NEC; video-equipment; VisuaLinks-AD-series; VisuaLink-5000-codec; VL-5000; CCITT-recommendation-H.261; teleconference-controller; TC-5000; teleconference-terminal; TV-5000; data-rates; camera-control-interface; echo-canceller; **picture-in-picture-function**; **split-screen**; field-multiplex-mode; **still-picture-graphics-transmission**; talker-select; video-inputs; cameras; monitors; microphones; speakers; 64-kbit/s-to-2-Mbit/s.**Treatment codes**P Practical;
R Product-review.**Numerical indexing**

bit rate: 6.4E04 to 2.0E06 bit/s.

Language

Japanese.

Publication typeJournal-paper.**Publication year**

1991.

Publication date

19910800.

Edition

1992003.

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0003446500 20070101.

TitleAdvances in high-resolution **image** simulation.**Conference information****Image** and Signal Processing in Electron Microscopy, 6th Pfefferkorn Conference, Niagara Falls, Ont., Canada, 28 April-2 May 1987.**Source**

Scanning Microscopy, {Scanning-Microsc-USA}, 1988, no. 2, p. 225-44, 23 refs, CODEN: SCMIEU, ISSN: 0891-7035, USA.

Author(s)O-Keefe-M-A, Kilaas-R.**Author affiliation**

O'Keefe, M.A., Kilaas, R., Nat. Center for Electron Microsc., Lawrence Berkeley Lab., California Univ., CA, USA.

Abstract

Continuing advances in hardware and software have improved both the speed and the range of computations that can be made to simulate high resolution electron microscope **images** from various structures. Use of **image** display systems and array processors has made the procedure much more interactive while laser printers provide a fast high-quality hard copy output. Use of array processors has enabled the rewriting of electron scattering algorithms to include convergence effects (previously considered only after the scattered electron beams had emerged from the specimen) and upper-layer-line effects. With an array processor it is faster to compute the effects of spatial and temporal coherence in real space, rather than use approximate solutions derived from series expansion in reciprocal space. With a frame buffer and suitable software the **user** has the facility to change parameters and view the results of the change almost immediately. Selected **images** can then be directed to hard copy output, in contrast with batch methods. Given a microdensitometer for input of experimental **images** from plates, or a video camera attached to the electron microscope and a frame buffer, **split screen** comparisons between experimental and computed **images** are possible, including independent control of **image** contrast, magnification and orientation.

Descriptors [COMPUTERISED-PICTURE-PROCESSING](#);  [DIGITAL-SIMULATION](#);  [ELECTRON-MICROSCOPY](#).**Classification codes**[A0780 Electron-and-ion-microscopes-and-techniques*](#);[A0650M Computing-devices-and-techniques](#).**Keywords****image-simulation; high-resolution-electron-microscope-images; image- display-systems;**

array-processors; electron-scattering-algorithms; convergence-effects; upper-layer-line-effects; frame-buffer; software; microdensitometer; video-camera; **split-screen-comparisons; image- contrast; magnification; orientation.**

Treatment codes

G General-or-review;
P Practical;
T Theoretical-or-mathematical.

Language

English.

Publication type

Conference-paper; Journal-paper.

Availability

CCCC: 0892-953X/88/\$3.00+.00.

Publication year

1988.

Publication date

19880000.

Edition

1989019.

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Accession number & update

0003377889 20070101.

Title

Multipoint teleconferences-investigations into uses, with different variations.

Source

NTZ, {NTZ-West-Germany}, Jan. 1989, vol. 42, no. 1, p. 8-12, 14 refs, CODEN: NNTZDZ, ISSN: 0027-707X, West Germany.

Author(s)

Muhlbach-L, Arif-M, Hopf-K, Romahn-G.

Author affiliation

Muhlbach, L., Arif, M., Hopf, K., Romahn, G., Heinrich Hertz Inst., Berlin, West Germany.

Abstract

The cost of providing a multipoint conference system can be very expensive as compared with the old telephone conference. To minimise these costs, investigations on comparative systems were carried out at the Berlin Heinrich-Hertz Institute. The five conference variations were: (1) sound only, enhanced by 'pseudo-stereo' to help identify the source origin (used in all variants); (2) still **picture** (TV quality), including **split-screen** production from all partner stations; (3) single moving **picture-broadcast**, i.e. from one station at a time, but selectable for the whole station group; (4) single moving **picture** 'autonomous', i.e. from any station, regardless of choice at another station; and (5) multiple moving **picture-split screen**, allowing simultaneous viewing of all participating stations. Each investigating place contained a 14 in. colour monitor, separate cameras for persons and for documents with **user-controlled** zoom, a microphone of kidney-shaped response, a pair of stereo loudspeakers, a service keyboard and a telefax machine.

Descriptors

 TELECONFERENCING.

Classification codes

B6210P Teleconferencing*;

B6430J Applications-of-television-systems.**Keywords**

ISDN; multipoint-teleconference-systems; TV-cameras; colour-TV-monitor; Berlin-Heinrich-Hertz-Institute; **still-picture**; TV-quality; **split-screen-production**; **single-moving-picture**; multiple-moving- pictures; loudspeakers; keyboard; telefax-machine; 14-in.

Treatment codes

A Application.

Numerical indexing

size: 3.6E-01 m.

Language

German.

Publication type

Journal-paper.

Publication year

1989.

Publication date

19890100.

Edition

1989012.

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Accession number & update

0003152771 20070101.

Title

Digital still HDTV disc system.

Source

IEEE Transactions on **Consumer** Electronics, {IEEE-Trans-Consum-Electron-USA}, Feb. 1988, vol. 34, no. 1, p. 64-71, 2 refs, CODEN: ITCEDA, ISSN: 0098-3063, USA.

Author(s)

Takahashi-N.

Author affiliation

Takahashi, N., Victor Co. of Japan Ltd., Tokyo, Japan.

Abstract

A system is described in which an uncompressed video signal is recorded on a disk and reproduced by a disk player that is connected to a high-definition television (HDTV) processor. Although primarily intended for still **picture** reproduction, this system can generate a display command that adds false **moving-picture** effects to the reproduced **image**. Each **still-picture** frame consists of 1280×1024 active pixels. This system records the luminance signal Y and two color difference signals CW and CN as component codes. The sampling frequency is 49.68 MHz for signal Y, and 24.84 MHz for the color difference signals. These signals are quantized by 8-bit linear conversion. The reproducing system has frame memory capacity equivalent to 2048×2048 pixels, 3.2 times the quantity of data per frame. Each frame memory stores data that continues over two frames and also provides vertical frame scrolls. Since video data can be transmitted in both horizontal and vertical scanning directions, the **picture** can be switched from one frame to another, making a vertical or a horizontal wipe. The remaining video area of the frame memory can store **split-screen** data.

Descriptors

[ANALOGUE-DIGITAL-CONVERSION](#); [DIGITAL-SYSTEMS](#); [TELEVISION-SYSTEMS](#);

 VIDEO-AND-AUDIO-DISCS;  VIDEO-RECORDING;  VIDEO-SIGNALS:

Classification codes

B6430H Video-recording*.

Keywords

digital-still-HDTV-disc-system; colour-difference-signals; quantisation; uncompressed-video-signal; **still-picture-reproduction**; luminance-signal; 8-bit-linear-conversion; reproducing-system; frame-memory-capacity; video-data; horizontal; vertical; video-area; **split- screen-data**; 1280-pixel; 1310720-pixel; 1024-pixel; 49.68-MHz; 24.84- MHz; 4194304-pixel; 2048-pixel.

Treatment codes

P Practical.

Numerical indexing

picture size: 1.28E03 pixel.
picture size: 1.31072E06 pixel.
picture size: 1.024E03 pixel.
frequency: 4.968E07 Hz.
frequency: 2.484E07 Hz.
picture size: 4.194304E06 pixel.
picture size: 2.048E03 pixel.

Language

English.

Publication type

Journal-paper.

Availability

CCCC: 0098-3063/88/0200-0064\$01.00.

Digital object identifier

10.1109/30.75361.

Publication year

1988.

Publication date

19880200.

Edition

1988014.

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Inspec - 1898 to date (INZZ)

Accession number & update

0002982558 20070101.

Title

Full text search and **image** retrieval.

Source

IMC Journal, {IMC-J-USA}, July-Aug. 1987, vol. 23, no. 4, p. 28-30, 0 refs, CODEN: IMGCB7, ISSN: 0019-0012, USA.

Author(s)

Bender-A.

Author affiliation

Bender, A., US Nucl. Regulatory Comm., Washington, DC.

Abstract

To explore the application of optical disk for its own record management requirements, the NRC, Division of Waste Management, established a pilot system to demonstrate the technology and at the

same time begin the process of converting its own documents into a searchable full text and **image** retrieval system. The NRC optical disk system is a microcomputer based system running in an MS DOS environment which utilizes full text or surrogate search retrieval techniques to provide **user** access to both the ASCII test and the original **image** of the document on a single high resolution (**split screen**) monitor. The optical disk system is a unique record management system which has focused on information retrieval rather than on the conventional approach of archival optical filing systems.

Descriptors

[INFORMATION-RETRIEVAL-SYSTEMS](#); [MICROCOMPUTER-APPLICATIONS](#); [NUCLEAR-ENGINEERING-COMPUTING](#); [OPTICAL-DISC-STORAGE](#); [PUBLIC-ADMINISTRATION](#); [RADIOACTIVE-WASTE](#); [RECORDS-MANAGEMENT](#); [WASTE-DISPOSAL](#).

Classification codes

[C5320K Optical-storage*](#);
[C7130 Public-administration](#);
[C7250L Non-bibliographic-retrieval-systems](#);
[C7470 Nuclear-engineering-computing](#);
[E0230 Environmental-issues*](#);
[E0420 Information-management](#);
[E3644N Optoelectronics-manufacturing](#).

Keywords

Nuclear-Regulatory-Commission; waste-management; **split-screen-monitor**; optical-disk; searchable-full-text; **image-retrieval-system**; microcomputer-based-system; MS-DOS-environment; surrogate-search-retrieval-techniques; ASCII-test; high-resolution; record-management-system.

Treatment codes

[A Application](#).

Language

English.

Publication type

[Journal-paper](#).

Publication year

1987.

Publication date

19870700.

Edition

1987021.

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Accession number & update

0002287155 20070101.

Title

Windows display a clearer **picture** (computer graphics).

Source

Office Equipment Index, {Off-Equip-Index-UK}, July 1984, no. 212, p. 24-5, 0 refs, CODEN: OEINET, ISSN: 0305-635X, UK.

Abstract

Now and again a development takes place in computer software which really makes life easier for the business **user**. Windows are at the heart of the latest generation of microcomputer software, and any company bringing out a new business program is likely to emphasise the extent to which 'windowing' can be achieved. For the end **user**, windows are meant to parallel precisely the executive's desk top.

The **screen** can be **split** into several 'windows', like pieces of paper, which can sit on top of each other, or next to each other according to what is needed at any particular moment. So you might be working on a spreadsheet, for example, when you wish to have a quick glance at last year's sales figures. Press the appropriate keys-and the page containing those figures will appear, overlapping with whatever was already on the **screen**.

Descriptors

 COMPUTER-Graphics.

Classification codes

C6130B Graphics-techniques*;
D2020 Design-and-graphics-IT-applications*.

Keywords

windows; graphics; software-packages; computer-software; microcomputer-software; business-program.

Treatment codes

G General-or-review.

Language

English.

Publication type

Journal-paper.

Publication year

1984.

Publication date

19840700.

Edition

1984009.

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Accession number & update

0002014926 20070101.

Title

Perfect Writer.

Source

Practical Computing, {Pract-Comput-UK}, Feb. 1983, vol. 6, no. 2, p. 103-4, 0 refs, CODEN: PRCODZ, ISSN: 0141-5433, UK.

Author(s)

Bidmead-C.

Abstract

Perfect Writer embodies a minicomputer text-handling philosophy called Emacs, which was developed in the Massachusetts Institute of Technology. Emacs design has matured over years of use and is full of good things, but inevitably they tend to clutter up the **image** of the product for the first-time **user**. For example, there are over six different ways of moving the cursor; seven completely separate chunks of text can be edited simultaneously; and the **screen** can be **split** if necessary for simultaneous viewing of two different sections of the same text, or sections of two different texts.

Descriptors

 WORD-PROCESSING.

Classification codes

C7100 Business-and-administration*.

Keywords

word-processing; Perfect-Writer; text-handling; Emacs.

Treatment codes

G General-or-review;

P Practical.

Language

English.

Publication type

Journal-paper.

Publication year

1983.

Publication date

19830200.

Edition

1983004.

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0001615103 20070101.

Title

Stereographic displays of atmospheric model data.

Conference information

SIGGRAPH 1980 Conference Proceedings. Seventh Annual Conference on Computer Graphics and Interactive Techniques, Seattle, WA, USA, 14-18 July 1980.

Source

Computer Graphics, {Comput-Graph-USA}, July 1980, vol. 14, no. 3, p. 134-9, 7 refs, CODEN: CGRADI, ISSN: 0097-8930, USA.

Author(s)

desJardins-M, Hasler-A-F.

Author affiliation

desJardins, M., Hasler, A.F., NASA/Goddard Space Flight Center, Greenbelt, MD, USA.

Abstract

A system has been developed to display color stereographic time-lapsed sequences of outputs of three-dimensional atmospheric models. Contour lines and wind vectors derived from a model can be overlaid on a geostationary satellite **image** or displayed with map boundaries. The colors of these graphics can be changed interactively to highlight any desired feature or aid in interpreting relationships between parameters. The viewing portion of the system consists of a raster scan **image** display terminal with **split screen** capability and a stereoscopic viewing hood. The **user** of the system can observe model outputs in color and stereo as a function of time and in a manner which permits easy visualization and comparison. The system permits a meteorologist to visualize atmospheric parameters in a three-dimensional representation and correlate these parameters with information derived from satellite observations. This capability can significantly increase the **user's** ability to interact with and understand complex meteorological relationships.

Descriptors

COMPUTER-Graphics; METEOROLOGY.

Classification codes

C5540 Terminals-and-graphic-displays*;

C7340 Geophysics-computing.

Keywords

atmospheric-model-data; wind-vectors; **geostationary-satellite-image**; map-boundaries; viewing-portion; **raster-scan-image-display-terminal**; **split-screen-capability**; stereoscopic-viewing-hood; meteorological- relationships; contour-lines; computer-graphics.

Treatment codes

P Practical.

Language

English.

Publication type

Conference-paper; Journal-paper.

Publication year

1980.

Publication date

19800700.

Edition

1981001.

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Computer Communications, Volume 29, Issue 16, 12 October 2006, Pages 3277-3294

Linda Källström, Simone Leggio, Jukka Manner, Tommi Mikkonen, Kimmo

Raatikainen, Jussi Saarinen, Sanna Suoranta and Antti Ylä-Jääski

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Mobile phone based SCADA for industrial automation • ARTICLE

10/487,447

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Engin Ozdemir and Mevlut Karacor
Abstract

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Computer Networks, Volume 47, Issue 4, 15 March 2005, Pages 445-487
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Computer Communications, Volume 27, Issue 18, 1 December 2004, Pages 1825-1839
Wassim Itani and Ayman Kayssi
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Information Security Technical Report, Volume 9, Issue 4, December 2004, Pages 6-21
Thomas Walter, Laurent Bussard, Yves Roudier, Jochen Haller, Roger Kilian-Kehr, Joachim Posegga and Philip Robinson
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10. **A lightweight identity authentication protocol for wireless networks • ARTICLE**
Computer Communications, Volume 27, Issue 17, 1 November 2004, Pages 1738-1745
Mohamad Badra, Ahmed Serhrouchni and Pascal Urien
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11. **Security performance of loaded IEEE 802.11b wireless networks • ARTICLE**
Computer Communications, Volume 27, Issue 17, 1 November 2004, Pages 1746-1756
Nilufar Baghaei and Ray Hunt
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Computer Networks, Volume 45, Issue 4, 15 July 2004, Pages 421-447
Marios D. Dikaiakos
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13. **Performance considerations for mobile web services • ARTICLE**
Computer Communications, Volume 27, Issue 11, 1 July 2004, Pages 1097-1105
M. Tian, T. Voigt, T. Naumowicz, H. Ritter and J. Schiller
SummaryPlus | Full Text + Links | PDF (439 K)

14. **J2ME application-layer end-to-end security for m-commerce • ARTICLE**
Journal of Network and Computer Applications, Volume 27, Issue 1, January 2004, Pages 13-32
Wassim Itani and Ayman Kayssi
SummaryPlus | Full Text + Links | PDF (430 K)

■ 15. **Efficient validation of mobile transactions in wireless environments • ARTICLE**
Journal of Systems and Software, Volume 69, Issues 1-2, 1 January 2004, Pages 183-193
 Victor C. S. Lee, Kwok Wa Lam and Tei-Wei Kuo
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■ 16. **Brute force web search for wireless devices using mobile agents • ARTICLE**
Journal of Systems and Software, Volume 69, Issues 1-2, 1 January 2004, Pages 195-206
 Konstantinos G. Zerfiridis and Helen D. Karatza
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(542 K\)](#)

■ 17. **Video transmission adaptation on mobile devices • ARTICLE**
Journal of Systems Architecture, Volume 49, Issues 10-11, November 2003, Pages 475-484
 Julien Bourgeois, Emmanuel Mory and Francois Spies
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(406 K\)](#)

■ 18. **Mobile clinical support system for pediatric emergencies • ARTICLE**
Decision Support Systems, Volume 36, Issue 2, October 2003, Pages 161-176
 Wojtek Michalowski, Steven Rubin, Roman Slowinski and Szymon Wilk
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■ 19. **Using reordering technique for mobile transaction management in broadcast environments • ARTICLE**
Data & Knowledge Engineering, Volume 45, Issue 1, April 2003, Pages 79-100
 SungSuk Kim, SangKeun Lee and Chong-Sun Hwang
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■ 20. **Active middleware for Internet Video on Demand: the QoS-aware routing solution in ubiQoS • ARTICLE**
Microprocessors and Microsystems, Volume 27, Issue 2, 15 March 2003, Pages 73-83
 Paolo Bellavista and Antonio Corradi
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■ 21. **Access methods for handling the updates of broadcast data in wireless mobile computing • ARTICLE**
Computer Standards & Interfaces, Volume 24, Issue 3, July 2002, Pages 207-226
 P. C. Saxena and I. J. Arora
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<input type="checkbox"/>	L66	715/803.ccls.	224
<input type="checkbox"/>	L65	715/830.ccls.	64
<input type="checkbox"/>	L64	715/839.ccls.	358
<input type="checkbox"/>	L63	715/800.ccls.	175
<input type="checkbox"/>	L62	715/777.ccls.	130
<input type="checkbox"/>	L61	715/786.ccls.	188
<input type="checkbox"/>	L60	715/784.ccls.	283
<input type="checkbox"/>	L59	715/781.ccls.	671
<input type="checkbox"/>	L58	715/526.ccls.	688

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<input type="checkbox"/> L57	715/500.ccls.	1326
<input type="checkbox"/> L56	709/203.ccls.	7267
<input type="checkbox"/> L55	707/104.1.ccls.	5866
<input type="checkbox"/> L54	707/102.ccls.	4748
<input type="checkbox"/> L53	707/10.ccls.	6677
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<input type="checkbox"/> L49	(customer\$ adj1 side).ab.	1222
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<input type="checkbox"/> L47	(consumer\$ adj1 side).ti.	37
<input type="checkbox"/> L46	(client\$ adj1 side).ti.	569
<input type="checkbox"/> L45	(client\$ adj1 side).ab.	3108
<input type="checkbox"/> L44	(user\$ adj1 side).ab.	4961
<input type="checkbox"/> L43	(user\$ adj1 side).ti.	375
<input type="checkbox"/> L42	(L28 or L29 or L30 or L31 or L32 or L33 or L34 or L35 or L36 or L37) and ((split\$ or separat\$ or composite) near image\$)	100
<input type="checkbox"/> L41	(L28 or L29 or L30 or L31 or L32 or L33 or L34 or L35 or L36 or L37) and L40	1
<input type="checkbox"/> L40	split-bar	17
<input type="checkbox"/> L39	(document with (view\$ or display\$ or imag\$) with server\$ with split-bar)	1
<input type="checkbox"/> L38	(L28 or L29 or L30 or L31 or L32 or L33 or L34 or L35 or L36 or L37) and (document with (view\$ or display\$ or imag\$) with server\$ with split-bar)	0
<input type="checkbox"/> L37	(client adj1 device\$).ti.	1580
<input type="checkbox"/> L36	(client adj1 device\$).ab.	6266
<input type="checkbox"/> L35	(wireless adj1 device\$).ti.	3216
<input type="checkbox"/> L34	(wireless adj1 device\$).tti.	0
<input type="checkbox"/> L33	(wireless adj1 device\$).ab.	7335
<input type="checkbox"/> L32	(handheld adj1 device\$).ab.	2847
<input type="checkbox"/> L31	(handheld adj1 device\$).ti.	760
<input type="checkbox"/> L30	(handheld adj1 device\$).ti.	760
<input type="checkbox"/> L29	(pda or (personal adj1 digital adj1 assistant)).ab.	54605
<input type="checkbox"/> L28	(pda or (personal adj1 digital adj1 assistant)).ti.	9370
<input type="checkbox"/> L27	L26 and (pda or (personal adj1 digital adj1 assistant)).ti.	0
<input type="checkbox"/> L26	20050086259.pn.	2
<input type="checkbox"/> L25	L23 and (client adj1 side).ab.	31
<input type="checkbox"/> L24	L23 and (client adj1 side).ti.	12
<input type="checkbox"/> L23	(server near (view\$ or display\$ or interfac\$ or imag\$) near client\$)	1272

<input type="checkbox"/> L22	(image near anyware near server\$)	0
	<i>DB=PGPB,USPT,USOC; PLUR=NO; OP=OR</i>	
<input type="checkbox"/> L21	((split-bar or (split near bar) or (split adj1 bar)) with server\$)	1
<input type="checkbox"/> L20	((split-bar or (split near bar) or (split adj1 bar)) near server\$)	0
<input type="checkbox"/> L19	((split-bar or (split near bar) or (split adj1 bar)) near ((client adj1 side) or client-side or clientside))	0
<input type="checkbox"/> L18	((split-bar or (split near bar) or (split adj1 bar)) with ((client adj1 side) or client-side or clientside))	0
<input type="checkbox"/> L17	((split-bar or (split near bar) or (split adj1 bar)) with ((client adj1 side) or client-side or clientside) with server\$)	0
<input type="checkbox"/> L16	L15 and server\$	375
<input type="checkbox"/> L15	L14 and (pda or (personal adj1 digital adj1 assistant) or phone\$ or handheld or wireless)	381
<input type="checkbox"/> L14	L7 and ((client adj1 side) or client-side or clientside)	630
<input type="checkbox"/> L13	(L11 or L12) and L8	1
<input type="checkbox"/> L12	L10 and ((client adj1 side) or client-side or clientside).ti.	10
<input type="checkbox"/> L11	L10 and ((client adj1 side) or client-side or clientside).ab.	68
<input type="checkbox"/> L10	L7 and (pda or (personal adj1 digital adj1 assistant) or phone\$ or handheld or wireless)	381
<input type="checkbox"/> L9	L7 and L8	1
<input type="checkbox"/> L8	(split-bar or (split near bar) or (split adj1 bar))	507
<input type="checkbox"/> L7	(((client adj1 side) or client-side or clientside) near (view\$ or display\$ or interfac\$))	630
	<i>DB=PGPB; PLUR=NO; OP=OR</i>	
<input type="checkbox"/> L6	20040030741.pn.	1
	<i>DB=PGPB,USPT,USOC; PLUR=NO; OP=OR</i>	
<input type="checkbox"/> L5	L4 and server\$	1
<input type="checkbox"/> L4	(L2 or L3) and (client\$ or consumer\$ or customer\$ or user\$)	6
<input type="checkbox"/> L3	(split-bar\$ or (split adj1 bar\$)).ab.	13
<input type="checkbox"/> L2	(split-bar\$ or (split adj1 bar\$)).ti.	5
	<i>DB=PGPB; PLUR=NO; OP=OR</i>	
<input type="checkbox"/> L1	20050234995.pn.	1

END OF SEARCH HISTORY